

Serial No.: 08/891,301

Patent
224/183
OI7011242001AMENDMENTS TO THE CLAIMSListing of Claims

47. (Currently Amended) A method of transmitting information from a server to a client station in a mobile-based client-server system, the method comprising:

determining ~~whether~~ that the server has information ~~for~~ to be transmitted to the client station without the client station initiating the determination ~~by establishing a communication link to the~~ server;

~~transmitting~~ generating a data paging notification message from the server to the client station via a page link between the server and the client station, in order to notify the client station that the server has information to be transmitted to in response to the server having information for the client station; and

~~receiving~~ transmitting the data paging notification message to a ~~transceiver, the transceiver~~ being separate from in the client station; and

causing the client station to establish a wireless communication link with the server that has a higher bandwidth than the page link in response to the received paging notification message.

48. (Canceled).

49. (Currently Amended) The method of claim 48 47, wherein the communication link between the client station and the server is established via the transceiver.

50. (Currently Amended) The method of claim 48 47 further comprising connecting the client station to the transceiver.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

51. (Currently Amended) The method of claim 48 47, wherein establishing a the communication link comprises:
- generating a signal containing a telephonic address of a transceiver associated with the server, wherein the signal includes instructions for establishing a log-on connection with the server;
- and
- transmitting the signal to the transceiver associated with the server to establish a communication link with the server based on the telephonic address.
52. (Currently Amended) The method of claim 48 47 further comprising:
- transmitting a first request for the information to the server via the communication link;
- receiving the information; and
- transmitting an additional signal to the server via the communication link.
53. (Previously Presented) The method of claim 52, wherein transmitting an additional signal comprises transmitting a further request for information.
54. (Currently Amended) The method of claim 48 47, wherein the data paging notification message indicates the type of information waiting for the client station at the server.
55. (Currently Amended) The method of claim 54 further comprising evaluating the data paging notification message to determine whether the information is of a selected type.
56. (Currently Amended) The method of claim 55, wherein the data paging notification message is evaluated at the transceiver.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

57. (Currently Amended) The method of claim 55, wherein the data paging notification message is evaluated at the client station.
58. (Previously Presented) The method of claim 55, wherein the communication link is only established when the information is of the selected type.
59. (Currently Amended) The method of claim 55 further comprising relaying the data paging notification message from the transceiver to the client station.
60. (Previously Presented) The method of claim 55 further comprising connecting the client station to the transceiver.
61. (Currently Amended) The method of claim 60 further comprising downloading the data paging notification message from the transceiver to the client station.
62. (Currently Amended) The method of claim 48 47, wherein the data paging notification message indicates a quantity of the information waiting for the client station at the server.
63. (Currently Amended) The method of claim 62 further comprising evaluating the data paging notification message to determine whether the information is of a selected quantity.
64. (Currently Amended) The method of claim 63, wherein the data paging notification message is evaluated at the transceiver.
65. (Currently Amended) The method of claim 63, wherein the data paging notification message is evaluated at the client station.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

66. (Previously Presented) The method of claim 63, wherein the communication link is only established when the information is of the selected quantity.
67. (Currently Amended) The method of claim 63 further comprising relaying the data paging notification message from the transceiver to the client station.
68. (Previously Presented) The method of claim 63 further comprising connecting the client station to the transceiver.
69. (Currently Amended) The method of claim 68 further comprising downloading the data paging notification message from the transceiver to the client station.
70. (Previously Presented) The method of claim 47, wherein the transceiver is a GSM-based transceiver.
71. (Currently Amended) The method of claim 70, wherein the data paging notification message is in an SMS paging message format.
72. (Currently Amended) The method of claim 47 further comprising evaluating the information at the server to determine whether the information is of a selected type, wherein the data paging notification message is only generated when the information is of the selected type.
73. (Currently Amended) The method of claim 47 further comprising evaluating the information at the server to determine whether the information is of a selected quantity, wherein the data paging notification message is only generated when the information is of the selected quantity.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

74. (Currently Amended) A computer program product that includes a computer readable medium, the computer readable medium having stored thereon a sequence of instructions which, when executed by a processor, causes the processor to execute a process for transmitting information from a server to a client station in a mobile-based client-server system, the process comprising:

determining whether that the server has information for to be transmitted to the client station without the client station initiating the determination ~~by establishing a communication link to the server,~~

transmitting-generating a data paging notification message from the server to the client station via a page link between the server and the client station, in order to notify the client station that the server has information to be transmitted to-in response to the server having information for the client station; and

receiving-transmitting the data paging notification message to-a transceiver, the transceiver being separate from in the client station; and

causing the client station to establish a wireless communication link with the server that has a higher bandwidth than the page link in response to the received paging notification message.

75. (Canceled).

76. (Currently Amended) The computer program product of claim 75 74, wherein the communication link between the client station and the server is established via the transceiver.

77. (Currently Amended) The computer program product of claim 75 74, wherein the process further comprises connecting the client station to the transceiver.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

78. (Currently Amended) The computer program product of claim ~~75~~ 74, wherein establishing a communication link comprises:

generating a signal containing a telephonic address of a transceiver associated with the server, wherein the signal includes instructions for establishing a log-on connection with the server; and

transmitting the signal to the transceiver associated with the server to establish a communication link with the server based on the telephonic address.

79. (Currently Amended) The computer program product of claim ~~75~~ 74, wherein the process further comprises:

transmitting a first request for the information to the server via the communication link;

receiving the information; and

transmitting an additional signal to the server via the communication link.

80. (Previously Presented) The computer program product of claim 79, wherein transmitting an additional signal comprises transmitting a further request for information.

81. (Currently Amended) The computer program product of claim ~~75~~ 74, wherein the ~~data~~ paging notification message indicates a type of the information waiting for the client station at the server.

82. (Currently Amended) The computer program product of claim 81, wherein the process further comprises evaluating the ~~data~~ paging notification message to determine whether the information is of a selected type.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

83. (Currently Amended) The computer program product of claim 82, wherein the data paging notification message is evaluated at the transceiver.
84. (Currently Amended) The computer program product of claim 82, wherein the data paging notification message is evaluated at the client station.
85. (Previously Presented) The computer program product of claim 82, wherein the communication link is only established when the information is of the selected type.
86. (Currently Amended) The computer program product of claim 82, wherein the process further comprises relaying the data paging notification message from the transceiver to the client station.
87. (Previously Presented) The computer program product of claim 82, wherein the process further comprises connecting the client station to the transceiver.
88. (Currently Amended) The computer program product of claim 87, wherein the process further comprises downloading the data paging notification message from the transceiver to the client station.
89. (Currently Amended) The computer program product of claim ~~75~~ 74, wherein the data paging notification message indicates a quantity of the information waiting for the client station at the server.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

90. (Currently Amended) The computer program product of claim 89, wherein the process further comprises evaluating the data paging notification message to determine whether the information is of a selected quantity.
91. (Currently Amended) The computer program product of claim 90, wherein the data paging notification message is evaluated at the transceiver.
92. (Currently Amended) The computer program product of claim 90, wherein the data paging notification message is evaluated at the client station.
93. (Previously Presented) The computer program product of claim 90, wherein the communication link is only established when the information is of the selected quantity.
94. (Currently Amended) The computer program product of claim 90, wherein the process further comprises relaying the data paging notification message from the transceiver to the client station.
95. (Previously Presented) The computer program product of claim 90, wherein the process further comprises connecting the client station to the transceiver.
96. (Currently Amended) The computer program product of claim 95, wherein the process further comprises downloading the data paging notification message from the transceiver to the client station.
97. (Previously Presented) The computer program product of claim 74, wherein the transceiver is a GSM-based transceiver.

Serial No.: 08/891,301

Patent
224/183
OI7011242001

98. (Currently Amended) The computer program product of claim 97, wherein the ~~data~~ paging notification message is in an SMS paging message format.

99. (Currently Amended) The computer program product of claim 74, wherein the process further comprises evaluating the information at the server to determine whether the information is of a selected type, wherein the ~~data~~ paging notification message is only generated when the information is of the selected type.

100. (Currently Amended) The computer program product of claim 74, wherein the process further comprises evaluating the information at the server to determine whether the information is of a selected quantity, wherein the ~~data~~ paging notification message is only generated when the information is of the selected quantity.